Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

Claims 1-3 (Canceled).

Claim 4. (Currently Amended) An edge correction apparatus for a digital video camera, comprising:

a horizontal edge signal generator and a vertical edge signal generator for respectively generating horizontal and vertical edge correction signals in horizontal and vertical directions of a sensed image obtained via an image sensing element of a digital video camera;

a horizontal edge signal gain controller and a vertical edge signal gain controller for controlling gains of the horizontal and vertical edge correction signals respectively from said horizontal edge signal generator and said vertical edge signal generator;

an adder for adding the horizontal and vertical edge correction signals whose gains are controlled by said horizontal edge signal gain controller and said vertical edge signal gain controller;

a slice processor for adding, to an image processing signal of the digital video camera, an edge correction signal obtained by performing slice processing for and edge signal output from said adder; and

a vertical edge component suppression position detector for causing said vertical edge signal gain controller to execute gain control of the vertical edge correction signal in accordance with a horizontal difference signal output from said horizontal edge signal generator,

wherein the horizontal difference signal is a signal corresponding to a pixel value less a weighted sum of a luminance difference between horizontally adjacent pixels on opposite horizontal sides of said pixel that is output from said horizontal edge signal generator and a difference between digital video camera CCD output signals vertically adjacent on opposite vertical sides of said pixel, and

wherein gain control of the vertical edge correction signal by said vertical edge signal gain controller is executed when the luminance difference between horizontally adjacent pixels is not less than a set threshold, and outputs of vertically adjacent digital video camera CCD output signals are not more than a set threshold.

Claim 5. (Currently Amended) An edge correction apparatus for a digital video camera, comprising:

a horizontal edge signal generator and a vertical edge signal generator for respectively generating horizontal and vertical edge correction signals in horizontal and vertical directions of a sensed image obtained via an image sensing element of a digital video camera;

a horizontal edge signal gain controller and a vertical edge signal gain controller for controlling gains of the horizontal and vertical edge correction signals respectively from said horizontal edge signal generator and said vertical edge signal generator;

an adder for adding the horizontal and vertical edge correction signals whose gains are controlled by said horizontal edge signal gain controller and said vertical edge signal gain controller;

a slice processor for adding, to an image processing signal of the digital video camera, an edge correction signal obtained by performing slice processing for and edge signal output from said adder; and

a vertical edge component suppression position detector for causing said vertical edge signal gain controller to execute gain control of the vertical edge correction signal in accordance with a horizontal difference signal output from said horizontal edge signal generator,

wherein the horizontal difference signal is a signal corresponding to a pixel value less a weighted sum of an output difference between horizontally adjacent pixels on opposite horizontal sides of said pixel that is output from said horizontal edge signal generator and a difference between digital video camera CCD output signals vertically adjacent on opposite vertical sides of said pixel, and

wherein gain control of the vertical edge correction signal by said vertical edge signal gain controller is executed when the output difference in green signal between horizontally adjacent pixels is not less than a set threshold, and the difference between the vertically adjacent digital video camera CCD output signals is not more than the set threshold.

Claim 6. (Previously Presented) An edge correction apparatus for a digital video camera, comprising:

a horizontal edge signal generator and a vertical edge signal generator for respectively generating horizontal and vertical edge correction signals in horizontal and vertical directions of a sensed image obtained via an image sensing element of a digital video camera;

a horizontal edge signal gain controller and a vertical edge signal gain controller for controlling gains of the horizontal and vertical edge correction signals respectively from said horizontal edge signal generator and said vertical edge signal generator;

an adder for adding the horizontal and vertical edge correction signals whose gains are controlled by said horizontal edge signal gain controller and said vertical edge signal gain controller;

a slice processor for adding, to an image processing signal of the digital video camera, an edge correction signal obtained by performing slice processing for and edge signal output from said adder; and

a vertical edge component suppression position detector for causing said vertical edge signal gain controller to execute gain control of the vertical edge correction signal in accordance with a horizontal difference signal output from said horizontal edge signal generator,

wherein gain control of the vertical edge correction signal by said vertical edge signal gain controller is executed when an amplitude of the horizontal difference signal exceeds a set threshold which is greater than zero.

Claim 7. (Previously Presented) An edge correction apparatus for a

digital video camera, comprising:

a horizontal edge signal generator and a vertical edge signal generator for respectively generating horizontal and vertical edge correction signals in horizontal and vertical directions of a sensed image obtained via an image sensing element of a digital video camera;

a horizontal edge signal gain controller and a vertical edge signal gain controller for controlling gains of the horizontal and vertical edge correction signals respectively from said horizontal edge signal generator and said vertical edge signal generator;

an adder for adding the horizontal and vertical edge correction signals whose gains are controlled by said horizontal edge signal gain controller and said vertical edge signal gain controller;

a slice processor for adding, to an image processing signal of the digital video camera, an edge correction signal obtained by performing slice processing for and edge signal output from said adder; and

a vertical edge component suppression position detector for causing said vertical edge signal gain controller to execute gain control of the vertical edge correction signal in accordance with a horizontal difference signal output from said horizontal edge signal generator, wherein the horizontal difference signal is a signal corresponding to a luminance difference between horizontally adjacent pixels that is output from said horizontal edge signal generator and,

wherein gain control of the vertical edge correction signal by said vertical edge signal gain controller is executed when the luminance difference between horizontally adjacent pixels is not less than a set threshold which is greater than zero.

Claim 8. (Previously Presented) An edge correction apparatus for a digital video camera, comprising:

a horizontal edge signal generator and a vertical edge signal generator for respectively generating horizontal and vertical edge correction signals in horizontal and vertical directions of a sensed image

obtained via an image sensing element of a digital video camera;

a horizontal edge signal gain controller and a vertical edge signal gain controller for controlling gains of the horizontal and vertical edge correction signals respectively from said horizontal edge signal generator and said vertical edge signal generator;

an adder for adding the horizontal and vertical edge correction signals whose gains are controlled by said horizontal edge signal gain controller and said vertical edge signal gain controller;

a slice processor for adding, to an image processing signal of the digital video camera, an edge correction signal obtained by performing slice processing for and edge signal output from said adder; and

a vertical edge component suppression position detector for causing said vertical edge signal gain controller to execute gain control of the vertical edge correction signal in accordance with a horizontal difference signal output from said horizontal edge signal generator, wherein the horizontal difference signal is a signal corresponding to an output difference in green signal between horizontally adjacent pixels that is output from said horizontal edge signal generator and,

wherein gain control of the vertical edge correction signal by said vertical edge signal gain controller is executed when the output difference in green signal between horizontally adjacent pixels is not less than a set threshold which is greater than zero.

Claims 9-10. Canceled